BRUHAT BANGALORE MAHANAGARA PALIKE
Excecutive Engineer Project Division Yelahanka

Name of Work: Providing Borewells, Pipelines and Water supply Vinayaka Nagar, Dwarakanagar, Agraharalayout, Kogilu Layout, Kattigenahalli, Chokkanahalli Surrounding areas in Ward No. 05

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction **(P.47, I. 9.4) PRED.SR 2012-13**								
	Basic Rate	1882							
	Area Weightage 3%	56.46							
	Total	1938.46							
			12				**12**	1938.46	**23261.52**
2	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,) **Page no. 46 / I. 9.1 PRED SR 2012-13**								
	Basic Rate	306							
	Area Weightage 3%	9.18							
	Total	315.18							
	0 to 50 m		12	50.00			**600.00**	315.18	**189108.00**
	Basic Rate	400							
	Area Weightage 3%	12							
	Total	412							
	50 to 100 m		12	50.00			**600.00**	412.00	**247200.00**
	Basic Rate	445							
	Area Weightage 3%	13.35							
	Total	458.35							
	100 to 150 m		12	50.00			**600.00**	458.35	**275010.00**
	Basic Rate	470							
	Area Weightage 3%	14.1							
	Total	484.1							
	150 to 200 m		12	50.00			**600.00**	484.10	**290460.00**
	Basic Rate	544							
	Area Weightage 3%	16.32							
	Total	560.32							
	200 to 250 m		12	50.00			**600.00**	560.32	**336192.00**
	Basic Rate	583							
	Area Weightage 3%	17.49							
	Total	600.49							
	251 to 300 m		12	50.00			**600.00**	600.49	**360294.00**
	Basic Rate	622							
	Area Weightage 3%	18.66							
	Total	640.66							

	300 to 350 m		5	50.00			**250.00**	640.66	**160165.00**
	Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded confirming to IS 554 / 1985, one end fixed with a socket and the other and with a plastic protection end (including of all taxes) **SE PRED III NO 84**								
		Rmtr	12	54.00			**648.00**	1325.00	**858600.00**
4	Providing 250mm dia PVC Pipe **BWSSB SR 16-17 PNO 57 SL NO 11**								
		Rmtr							
			12	6.00			**72.00**	1144.00	**82368.00**
5	Providing 175mm dia ms casing cap **page no III it no 85 pred 12-13 sr**								
		no	12				**12.00**	100.00	**1200.00**
6	Providing MS Casing pipe collars **page no III it no 86 pred 12-13 sr**								
			12	10.00			**120.00**	150.00	**18000.00**
7	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / **Atalanta**/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings . PAGE NO **XXXXII**									
	17.5 HP 30 Stage		12				**12**	74300.00	**891600.00**
8	. KSRB13-3.1: Providing and fixing to wall celling and floor glavanised/ mild steel tubes (medium grade 1.27 kg /mt) B class **50 mm dia** nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. **(Page 90 ITEM NO 13.6)**								
	Basic rate	510.00							
	11% AD-HOC	56.10							
	Sub Total-1	566.10							
	Area Weightage 6%	33.966							
	Sub Total-2	600.07							
		Mtr	6	300.00			1800.00		
			6	280.00			1680.00		
							3480.00	600.07	**2088229.68**
9	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and Powder coated extrued PVC sheathed suitable for working voltage upto 1100 Volts as per IS - 694 ; 1990 AND CONFORMING TO gtp OFGROUP A **P. No. 12/ I No. (2.10.4) 3cx 6.0 Sqm KPWD Electrical SR 2014-15**								
		Mtr	12	590.00			**7080.00**	188.70	**1335996.00**
10	Labour charges for erection of new/ repaired submersible pumpset along with gi pipes inculding transportion each length **pno 558 ino 3 bwssb sr 14-15**								
		NO	12	50.00			**600**	88.00	**52800.00**
11	Supplying and flush polished wood board with out front frount plank made of not less than 15mm thick plank after due groove cutting Finishing with necessary on **fixing the same to the wall using tapered** inverted wooden plugs screws etc., **P No. 44No.6.6.6 KPWD Electrical SR 2014-15**								
	20x20x2.5	Each	12				**12**	302.00	**3624.00**
12	Supplying of 1.1 KV LT UG cable having aluminium condutor PVC insulated shethed, EXTREDED INNER SHEATHRD galvnised steel,stirp confirming IS 3975;1990 AND extruded PVC outer sheathing armoured cable IS 1554 part 1;1998 and confirming to GTP of group.**P No.55/ I No.7.4.4 (4 core 16 Sqmm) KPWD Electrical SR 2014-15**								

		Mtr	12	35.00			**420.00**	140.40	**58968.00**
13	Labour charges for laying of 1.1 K.V class UG cable, **P No. 61 / I No. 7.8.1 In existing trencg/duct 6Sqmm to 16 Sqmm) KPWD Electrical SR 2014-15**								
		Mtr	12	35.00			**420.00**	10.80	**4536.00**
14	Digging or trenching of 0.6m deep x 0.5 mtr wide refilling the trench to the required ground level and consolidating etc., complete**P No. 62/ I. No.7.9.4 KPWD Electrical SR 2014-15**								
	For Cutting Road Surface aspalt	Mtr	12	30.00			**360.00**	117.00	**42120.00**
15	Supplying and fixing of Class A (meaium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class **P. No. 62/ I No.7.12.1 KPWD Electrical SR 2014-15**								
	40mm dia GI pipe	Mtr	12	3.00			**36.00**	345.00	**12420.00**
16	Supplying and fixing L.T. cast Iron pot head suitable for 1.1 KV class UG cable filled with necessary bituumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., **P. No.62/ I No. 7.13.2 KPWD Electrical SR 2014-15**								
	16Sqmm	NO	12				**12.00**	280.00	**3360.00**
17	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cutouts and other equipments on the meter board using 40 mm dia 2.90 mm thick GI pipe 2.5 m long buried in a pit. The pit should be filled with equal propotion of solt and charocoal 150 mm alround the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size, as per ISI specification 7.3.3 IS 732 using 12 mm dia bolts, nuts, washers and check nuts, etc., the pipe shall have 16 throught holes of 122 mm dia, **(P No.55, I No. 7.1) KPWD Electrical SR 2014-15**								
		NO	12				**12**	2727.00	**32724.00**
18	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete.... **P No44/I No 6.7.4 KPWD Electrical SR 2014-15**								
	100 Amps	Each							
		12	3				**36**	360.00	**12960.00**
19	Supplying and fixing of heavy duty glands for ug cable 1.1 kv etc., complete.... **P No62 I No 7.14.2 KPWD Electrical SR 2014-15**								
	25mm dia	Each							
		12	6				**72**	86.00	**6192.00**
		12	6				**72**	86.00	**6192.00**
20	Supplying and fixing miniature circuit breakers/solaters on existing MCB distribution boards using necessary fixing materiasl wiring complete as requireds 5 to 32 amps triple pole with all lead and lift, loading, unloading and labour charges etc complete as per specifications **pno 47 IT 6.16.5 KPWD Electrical SR 2014-15**								
		Each	12				**12**	1547.00	**18564.00**
21	Fabrication supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 sqcm @ Rs.0.33 **P.No. 49, I. No.6.40.2 KPWD Electrical SR 2014-15**								
	16SWG	Sq.Cm	24	220.00	60.00		316800.00		
			12	450.00	25.00		135000.00		
							451800.00	0.33	**149094.00**
22	KSRB 13-7.1-4: Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications NO KBS 13.2.16 / 13.13 **Page No.90 Item No. 13.55 / PWD SR 2016-17**								
	Basic rate	1496.00							
	11% AD-HOC	164.56							

	Sub Total-1	1660.56							
	Area Weightage 6%	99.6336							
	Sub Total-2	**1760.19**							
		NOS	12				**12**	1760.19	**21122.32**
23	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete. **P. No.92/ I. No. 13.81.3 PWD SR**								
	Basic rate	215.00							
	11% AD-HOC	23.65							
	Sub Total-1	238.65							
	Area Weightage 6%	14.319							
	Sub Total-2	**252.97**							
	50mm dia	NOS	12	2.00			**24**	252.97	**6071.26**
24	Gate value 50 mm nominal bore gun metal **P. No.xxiii sl No. 673 PWD SR**								
	50mm dia	NOS	12	3.00			**36**	1650.00	**59400.00**
25	NIPPLE 50 mm nominal bore gun metal **P. No.xxXIXiii FITTINGS PWD SR**								
	50mm dia	NOS	12				**12**	104.30	**1251.60**
26	S BEND 50 mm nominal bore gun metal **P. No.xxXIXiii FITTINGS PWD SR**								
	50mm dia	NOS	12	3.00			**36**	219.00	**7884.00**
27	TEE 50 mm nominal bore gun metal **P. No.xxXIXiii FITTINGS PWD SR**								
	50mm dia	NOS	12				**12**	169.00	**2028.00**
28	Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best								
		NO	12				**12**	10000.00	**120000.00**
29	Earth work excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches, 1.5m and above in width, in ordinary soil, exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with all lead upto 50m after breaking of clods complete as per specifications .**(P.No.5, I.No.2.1) (SR of PWD)**								
	Basic rate	157.00							
	11% AD-HOC	17.27							
	Sub Total-1	174.27							
	Area Weightage 6%	10.4562							
	Sub Total-2	**184.73**						-	
			12	204.00	0.60	0.75	1101.60		
					Per Cmtr		**1101.60**	184.73	**203494.00**
30	Providing and installing at site of work pvc pipes including cost of pipes and special and labour including lowering into trenches laying true to line level and prefect linking at joints, leak proof including jointing of approved type with all labour and lift charges handling charges including encasing the pipes all round to a depth not less than 15 cms with gravel or selected earth available from the excavation etc. complete PVC pipe of 6kg/cm2 75 mm (0.662) **(Page no.13, Item No.7.1.5) (PRED)**								
			12	204.00			2448.00		
	Basic Rate	128.00							
	Area Weightage 3%	3.84			Per Rmtr		**2448.00**	131.84	**322744.00**
	Total	**131.84**							
31	KSRRB M2100-9. Sand Filling in Foundation Trenches as per Drawing & Technical SpecificationMORTH Specification No. 304 **(Page no. 217, Item No.7.1.5) (kuws and db)**								
			12	204.00	0.50	0.075	91.80		

	Basic rate	2757.00							
	11% AD-HOC	303.27							
	Sub Total-1	3060.27							
	3% AW	91.81							
	Sub Total-2	**3152.08**							
					cum		**91.80**	3152.08	**289361.00**
32	KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications. **(Page No.6, Item No. 2.11)**								
	Basic rate	76.00							
	11% AD-HOC	8.36							
	Sub Total-1	84.36							
	Area Weightage 6%	5.0616							
	Sub Total-2	**89.42**							
					From item no. 29		1101.60		
					From item no. 31		91.80		
					Per Cmtr		**1009.80**	89.42	**90298.00**
33	KSRRB M200-24. **Dismantling of cement concrete pavement** by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 (P.No. 138, I.No. 18.47)								
	Basic rate	781.00							
	11% AD-HOC	85.91							
	Sub Total-1	866.91							
	6% AW	52.01							
	Sub Total-2	918.92							
	CC Road							-	
		1	100.00	0.60	0.10	6.00			
						6.00	**Cum**	**918.92**	**5,513.55**
34	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications.(P.No-12,I No-4.6)								
	Basic rate	5441.00							
	11% AD-HOC	598.51							
	Sub Total-1	6039.51							
	6% AW	362.37							
	Sub Total-2	6401.88							
	CC Road								
		1	100.00	0.60	0.10	6.00			
						6.00	**Cum**	6401.88	**38,411.28**
35	BESCOM Deposit	L/S	12				**12**	16300.00	**195600.00**

						8924	417.21	8919361.46
11% KRIDL CHARGES						9816	85.89	981129.76
1% PMC Charges						938	00.00	99500.00
Sub total						9999	903.10	9999991.22
Miscellaneous and Rounding off							96.90	8.78
						TOTAL	RS.	10000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2016-2017, issue rates and Data Rates. 11% AD-HOC is added as per order issued on 06-02-2018

Assistant Engineer
Project Division Yelahanka
BBMP Bangalore

Asst. Executive Engineer,
Project Division Yelahanka
BBMP Bangalore

Executive Engineer,
Project Division Yelahanka
BBMP Bangalore
7/2/18

Administrative Approval

Accorded For 100.00 Lakhs Only
Head of A/C P3158
CER NO :116 Dt:8/2/18

E.E: (Projects) 8/2

Technical Sanction

Accorded For 100.00 Lakhs Only
Head of A/C P3158
CER NO :622 Dt:08/02/18

TA CE (YNK).